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## Technical Data Sheet

### WHC Solid Glucoamylase Enzyme

#### Description

This high-activity solid glucoamylase converts dextrans into fermentable glucose. It maximises attenuation, boosts alcohol yield, and improves mash efficiency.

#### Usage

- Alcohol and ethanol industry: The recommended dosage is 0.6-1.2kg per ton of total raw materials.
- Beer industry: The recommended dosage is 0.4-0.8kg of the enzyme preparation per ton of total raw materials, added at mashing-in.
- Starch sugar industry: The recommended dosage is 0.5-1.0kg per ton of dry starch when saccharifying at 60-63°C and pH 4.3-4.5.

#### Ingredients Declaration

Glucoamylase (90 - 100%)

CAS-No.: 9032-08-0

EC-No.: 232-877-2

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Resp. Sens. 1, H334

#### Technical Specifications

Visual Description	<i>Light yellow to brownish yellow powder. Color may vary from batch to batch. Color intensity is not an indication of enzyme activity.</i>
Dosage	<i>Please see 'Usage' above.</i>
Activity Temperature	30°C to 65°C <b>or</b> 86°F to 149°F
Optimal Temperature	50°C to 60°C <b>or</b> 122°F to 140°F
Activity pH	3.5-6.0
Optimal pH	4.0-5.0

## Packaging

WHC Solid Glucoamylase Enzyme is available in 25kg packages. These materials comply with relevant food-contact legislation, including, EU Regulation 1935/2004 (materials intended for contact with food), EU Regulation 1245/2020 (plastic materials intended for contact with food), EU Regulation 2023/2006 (GMP for materials intended for contact with food), and FDA CFR 21 (174-179) (USA).

## Storage and Handling

Storage Conditions:	Avoid direct exposure to sunlight or moisture while transporting and storing in cool, dry areas. Keeping original sealed container at or below 25°C. Product lasts longer if kept in 4°C to 10°C cold storage.  Keep sealed after use every time to avoid microbial infections and inactivation of enzymes until its finish.
Shelf life:	12 months if stored as above.
Handling:	<b>For Safety:</b> <i>Enzyme preparations are proteins that may induce sensitization and cause allergic type of symptoms in susceptible individuals. Prolonged contact may cause minor irritation for skin, eyes or nasal mucosa. Any direct contact with the human body should be avoided. If irritation or allergic response for skin or eyes develops, please consult a doctor.</i>  <b>Please request a Material Safety Data Sheet/MSDS for further advice.</b>

*If you have any questions or concerns about our product please contact us at [lab@whclab.com](mailto:lab@whclab.com)*